THE TECH

VOL. XXIX. NO. 100. BOSTON, MASS., FRIDAY, FEBRUARY 25, 1910 PRICE ONE CENT

GYM TEAM BEATEN BY SALEM Y. M. C. A.

Gott Is Tech's Star---Tumbling Of Salem Team Big Feature

In the first gym. dual meet of the year, Technology was defeated by the Salem Y. M. C. A. by the score of 35 1-2 to 27 1-2. The Institute did their best work on the horizontal and parallel bars. The excellent tumbling of the Salem team decided the meet; it was the most interesting exhibition of the meet. The summary:

Horizontal bar—H. S. Gott, Tech. first; Joseph St. Laurent, Y. M. C. A., second; B. Darrow, Tech, third.

Horse—H. S. Crocker, Tech, and Packard, Y. M. C. A., tied for first; Fossa, Y. M. C. A, second; R. W. Jacoby, Tech, third

Parallel bars—C. F. Doble, Tech, first; H. S. Gott, Tech, second; H. S. Crocker, Tech, third.

Club swinging—Blakely, Y. M. C. A., first; W. H. Baxter, Tech, second; C. R. Benton, Tech, third.

Single tumbling—Pelletier, Y. M. C. A., first; John St. Laurent, Y. M. C. A., second; H. S. Gott, Tech, third.

Double tumbling— Pelletier brothers, Y. M. C. A., first; St. Laurent and St. Amond, Y. M. C. A., second; Wilson and Gott, Tech, third

Flying rings—Joseph St. Laurent, Y. M. C. A., first; B. Darrow, Tech, second; Wilfred Leach, Y. M. C. A., third.

Wrestling—Fossa, Y. M. C. A., beat Smythe-Martin, Tech; Anderson, Y. M. C. A., beat Herreschoff, Tech.

The judges were G. F. Hoffman, H. H. Macherry, and D. Kaney.

TECH SHOW AT SHUBERT

The Queen Of The Cannibal Isles At Boston's Finest Theatre

The management of the Show has announced that Tech Show 1910 will be held in the Shubert Theatre.

This theatre is the newest in Boston and is incorporated with all the modern theatre facilities. It is about the same size as the Hollis St. Theatre, where the Show has been given the past two years; there are, however, fewer orchestra seats and more balcony room than at the Hollis, the total seating room being about fifteen hundred.

Every seat in the house affords a good view of all parts of the stage. The stage itself has, moreover, every appliance for the production of the cannibal scenic effects, which will be very important in the giving of "The Queen of the Cannibal Isles" next April.

The Show managers consider themselves very fortunate in being able to secure this theatre.

Vienna, Feb. 25.—Forty thousand troops are in camp at Dubnitza, Bulgaria, and at Kostendil, three hours' march from the Turkish border, according to the report of a military observer to a friend in the Austrian army. A branch department of the Bulgarian general staff was established last week at Dubnitza. Officials from the Sofia war office are continually arriving and departing.

Annapolis, Md., Feb. 24—The school children of Maryland have just selected the "black-eyed Susan" as the official flower of the state. This important decision was duly entered in the minutes of the State Board of Education yesterday.

PROF. DALY SPEAKS TO MINING SOCIETY

"Hawaiian Volcanoes" The Subject Of Interesting Lecture

"The most interesting part of the United States," was Prof. Daly's introduction to his lecture on "Hawaiian Volcanoes" to the Mining Engineering Society last night. He said that this country is the most interesting not only by virtue of its unexampled geological features which he was intending to describe but also commercially and from a strategic standpoint as a military base in time of war. The white population, while not numerous, is unusually active and successful. The climate was also described as most alluring.

Then starting with the southeastern island of Hawaii he discussed the group geologically, leading his hearers by his graphic descriptions over the peculiar topographical sections of this group to the northwestern island of Kauai. By observing this order the lecturer was able to illustrate the progressive stages of vulcanism from the active erupting types in Hawaii to the older eroded lava deposits.

The two largest craters in Hawaii, and indeed in the world, are Kilauea and Mauna Loa. The first named is a volcanic sink three miles long containing an active lake which varies in size. In this boiling lake of molten rock is situated a violently disturbed center which is supposed to communicate directly with the internal reservoir of molten magna. This center is called "Old Faithful," and, like the geyser of the same name it erupts periodically. It differs, however, in that it erupts every 35 seconds projecting rock whose specific gravity is three. This molten lake is covered by a thin scum of partially solidified lava which is torn and twisted by the explosions beneath its surface showing glimpses of the glowing heat beneath. At several places on the outskirts of the lake are caves into which the lava rushes and explodes violently because of the superheating of the enclosed gases.

Mauna Loa has many similar features but here the action is often much more violent and lava is frequently shot 800 to 1000 feet into the air. In the great crater of Mauna Loa are found 156 smaller cones.

The scene here is not particularly spectacular in the day-time but at night the playing colors of the seething mass will hold the observer enchanted until dawn. The unusual activity of this volcano may be explained by the hypothesis that it is fed by an active laccolith or subterranean cavern filled with molten magma. If this be true it is the only modern example.

He then touched on the other islands of the group beginning with Maui where is found the huge remains of a once gigantic crater. Half of this has, by some upheaval, been dropped into the Pacific. Kaui is remarkable for its deeply eroded canons.

With a picture of Mt. Baker on the screen Prof. Daly concluded by pointing out the vital connection between Geology and Mining and especially in the direction of Vulcanism as explaining the origin of ore deposits. He said in part. "All practical and applied science has come from pure science and I think that this is another case. Brilliant men are going into this kind of work and they are needed. They can make millions of dollars." Through the efforts of Prof. Jaggar the Institute will probably be able to establish an obser-

(Continued on page 3.)

SENIOR CLASS TO AID PORTTOLIO FINANCIALLY?

Constitution Amendment And Finance Committee To Be Considered

At the senior class meeting today ot one o'clock, in Huntngton Hall, a number of important matters are coming up. The class assessment for this term, the approval of the new Finance Committee, and the constitutional amendment must all be acted on. In addition, two matters of vital importance to each individual member must be decided. These are: first, the question as to whether the class will assume financial responsibilty for the Senior Portfolio that is receiving the profits or paying the loss, as the case may be; and second, to decide what members of the class are eligible for the Class Day Committee so far as influenced by their non-payment of class dues and by the number of courses they are taking in the fourth year. These matters are worthy of the interest of every member of the class and a large attendance is desired.

Whatever action will be taken by the senior class with regard to the Finance Committee and the constitutional amendment will be watched with great interest by the whole Institute. These questions are being put up to every activity, class or organization, and what the seniors do will very likely greatly influence the rest.

The Finance Committee's scheme is that a committee of representative alumni be appointed to oversee the financial matters of the activities. The purpose is to see that the name of the Institute is not hurt by the non-payment of bills contracted by organizations. It will see that this is done either out of the real profits of the organizations or out of their pockets.

Editorial comment on what the constitutional amendment means will be found on the second page.

TECH DEFEATS LOWELL

Technology outplayed Lowell Textile at Lowell last night, and defeated them by the score of 49 to 17. The summary:

Tech		Lowell
Bennis, r f		l b, Phillips
Ell, l f		r b, Manning
Johnston, c		c, Bailey
Crocker, r b		l f, Flynn
Parker, l b		r f, Pensel

Goals from floor—Parker 9, Johnston 5, Ell 3, Bennis 3, Manning 3, Flynn 2, Crocker 2, Pensel 1, Bailey 1. Goals from fouls—Tech 5, Lowell 3. Referee, Wood; scorer, Darling. Hale. Halves, 20m. 15m.

Boston, Feb. 24—The State officials on pure food products are conducting a campaign against impure olive oil, which they claim has been sold by many dealers in the North End. Inspector Marion claims that in many of the cans or bottles, which claim to contain olive oil, there is a large percentage of cottonseed oil.

Boston, Mass., Feb. 24—Bishop Lawrence suggests a new memorial for Phillips Brooks. He advocates finishing the interior of the parish church. However, the authorities of the church will give this matter little consideration.

Washington, Feb. 24—From an authentic source it was learned today that two battleships of 28,000 tons each and several other naval vessels will probably be recommended for construction this year.

DEMAND FOR RUBBER GREATER THAN SUPPLY

W. W. Duncan Asserts That This Is Cause Of High Prices

The amendment to the constitution of the Chemical Society, suggested by the Institute Committee, was the first business to be taken up by that society at their meeting last night. The amendment, which reads: "This organization hereby gives authority to the Institute Committee to enforce any measures which the latter may deem advisable," was discussed by members of the society and by members of the faculty present. At the end of the discussion, Pres. Geo. F. Lunt called for an expression of opinion through an informal vote. From this it appeared that the majority of the members present believed the amendment to be altogether too sweeping in its conference of power, but would find it acceptable if it were made applicable only to the enforcement of the point system. No definite action was taken on the matter.

The speaker of the evening was Mr. W. W. Duncan, '04, a graduate of Course X who is now chemist for the Hood Rubber Co. of Watertown. Mr. Duncan first gave a short account of the early history of rubber. This substance was first mentioned in 1556; in 1736 the name caoutchouc was applied to it; in 1823 rubber articles were first manufactured in England. Goodyear, an American, in 1839 discovered the process of vulcanizing by means of sulphur at a high temperature. A method for the synthesis of rubber has been sought since 1882, and although a process has been patented in England, the method described in the patent has never been successfully repeated. In 1904 an India Rubber research laboratory was established by Dr. Webber in Boston. Dr. Webber's plan was to organize all the Rubber Mnufcturers so tht they could jointly carry on research work, and could standardize the methods of analysis. Dr. Webber died in 1905, and his laboratory was taken over by the Hood Rubber Co.

The process of gathering the sap of rubber trees and preparing the crude rubber for shipment was next described and illustrated by large pictures. The crude rubber when it reaches the factory is first washed and made plastic; then it is dried in a vacuum dryer and is next mixed with the ingredients necessary for the vulcanization. This plastic rubber is molded over aluminum lasts for boots and shoes, or it is worked into tires and other rubber articles. These molds are sent to the vulcanizers, where they are heated to 270 degrees F. by means of steam coils. The articles are then varnished, finished, and packed for market.

(Continued on page 3.)

CALENDAR.

Friday, Feb. 25.

1:00	1910 Class Meeting, Huntington Hall.
8:00	Military Hop, M. I. T. Cadets, Howe Hall.

Saturday, Feb. 26.

3:00	Indoor Track Meet, 1912 vs. 1913, at Gym.
7:30	Mining Engineering Society, Union. Illustrated Lecture by Prof. Daly on "Hawaiian Volcanoes."
8:00	Basket-ball. Tech vs. Maine at Gym.
8:00	Gym Meet. Tech vs. Amherst at Gym.

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WHY AN INSTITUTE COMMITTEE

"This organization hereby gives authority to the Institute Committee to enforce any measure which the latter may deem advisable."

Is this clause too broad?

The heads of all the activities at the Institute have received a letter from the Institute Committee asking the activities to pass on the above amendment to their respective constitutions. If that organization happens to be a class, the following clause is also put forward for adoption. "Every activity elected or appointed by the clas of 19—shall comply with all the rulings of the Institute Committee.

Numerous suggestions have been brought forward by the various organizations with an idea of limiting this clause. Inasmuch as entirely different groups are asked to pass on these clauses, and inasmuch as each will have its particular idea of how it should be arranged the result will be to get no two similar actions by anyone, and the Institute Committee will be as much up against it as it has been up to date in all of its efforts to do good for the student body.

WHAT IT REALLY MEANS.

The essence of the request of the Committee for the passage of these two measures is a request for its very existence. The question is, are the most representative members of the various interests to be given the right to represent their interests in the matters that are for the advancement of those interests and of the whole Institute? It is hard to conceive of a Committee organized as this one is running away with its responsibilities.

There may be some question of the need of any committee to have such broad interests. It can be easily shown that there is much to be done by naming, as has been done in these columns before, a few of the objects that might be achieved by an Institute Committee with real powers.

A Point System that is a Point System in fact as well as theory.

A proper adjustment of the time claimed by activities and by studies.

A Reorganized Co-operative Society that would compare favorably with ilar societies at other institutions.

More uniformity in the actual requirements of the various courses.

Investigations in various courses in which many students fail, to determine whether the instruction is adequate preparation for the examinations given.

A certainty of fairness in the competitions for the various student activities.

The arrangement of programs of events in such a manner that unnecessary conflicts will be avoided.

An investigation of the present school year calendar.

The betterment of the relations between faculty and students so that they can more nearly approach each other in level, inside and outside of the class room.

REPRESENTATION.

There is only one group of interests at the Institute that is not properly represented, and these are the activities which have no representatives on the Committee. They should be provided for. The following suggestion is made for a ruling by the Institute Committee:

"Every activity with or without direct representation on the Institute Committee shall have the right to ask for a reconsideration of a measure affecting them at a meeting of the Institute Committtee at which they shall have representative who shall present their side of the case."

This would take care of those who had no authorized representation or who were not properly represented at a meeting. Those organizations who are already represented on the Committee should not bother with this latter suggestion, but those without representation should accept the provisions of the Committee only on condition that the Institute Committee make a definite ruling to the effect of the above.

ACTIVITY.

The Institute Committee has been accused of inactivity from time immemorial; but the real cause is the fact that they have had no authority. It is hard to conceive of this Committee so elected running away with its power, because, whatever may be laid down, it rules by the consent of the governed. If it did not, the members know that as other legislators, they would find others occupying their positions. Give them the power; leave it to them how to use it; and the ends will justify the means.

1912-1913, you believe in supporting your classmates in every event where class supremacy is to be decided, don't you? If you don't take part, you want to cheer and encourage your class to victory.

Saturday at 2.30 comes the first underclass track meet. Both classes will have representatives in all the events and a lively interest prevails among the men who are to take active part in the meet.

At the other underclass contests there has been a lack of attendance on the part of representatives of the lower classes in the ranks of the spectators. Get out, Freshmen and Sophs, and give your classmates hearty support.

Pittsburg, Feb. 24—Andrew Carnegie has offered $25,000 for the first of the pupils of the Carnegie School of Technology in this city who will produce a heavier-than-air machine that will fly and will be of some commercial value.

It has been known for some time that the former steel king was taking a great interest in aerial navigation.

The details of the offer will not be made public until the next visit of Mr. Carnegie.

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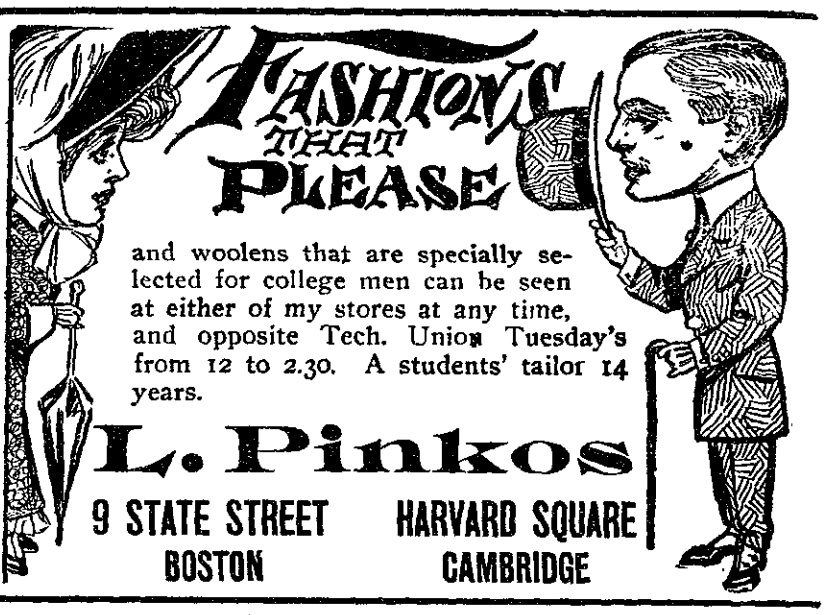

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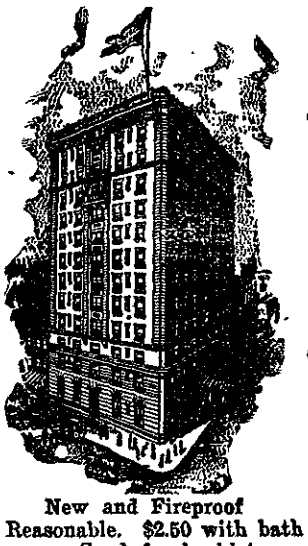
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HIGH PRICE OF RUBBER

(Continued from page 1.)

Mr. Duncan showed by figures that the demand for rubber articles is increasing much faster than the supply of rubber, and that this is the cause for the large increase in the price of all rubber goods.

The experimental department of the Hood Rubber Co. employs four chemists, two machine designers, four mechanical engineers, two architects, several stenographers, and many assistants. The work is divided among the following four committees: Research Committee, Machine Committee, Development Committee, and Testing Committee. These committees are further separated into divisions, each one of which has its special line of work.

In closing, Mr. Duncan urged all students of chemistry to learn, not only their chemistry, but also the designing and handling of machines, and the interpretation of drawings. Only when he has this knowledge is a chemist in a position to apply and interpret the results he obtains in the laboratory.

"HAWAIIAN VOLCANOES"

(Continued from page 1.)

vatory near Kilauea where the relations of vulcanism can be studied at their best.

cla rmhru pratetiee nte|vaa SldodO yy cussed the proposed extension of the authority of the Institute committee and after some discussion it was placed in the hands of a committee. Following his talk Prof. Daly showed some excellent samples of the peculiar contortions of the solidified lava including pumice containing 99 per cent. air and but one per cent. rock and also some of the celebrated Pele's hair collected ten miles from the crater.

COURSE V AND X

Tomorrow will be issued the fifth of the special course issues, Chemistry and Chemical Engineering. It will be an eight-page paper. Good cut of all in course, good cuts of Professors Talbot, Walker and Noyes. Regular news about four columns. Regular special issue price, five cents.

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NOTICES

MODERN LANGUAGES.

Beginning Wednesday, the 23d inst., exercises in the following subjects will be held as indicated, instead of as heretofore.

Subject		Hours	Room	Instructor
German I	Sec. a	Tuesday 8-9	30 Lowell	Dr. Kurrelmeyer
		Thursday 8-9	30 Lowell	Dr. Kurrelmeyer
		Saturday 8-9	30 Lowell	Dr. Kurrelmeyer
	Sec. b	Monday 4-5	21 Lowell	Mr. Meister
		Wednesday 4-5	21 Lowell	Mr. Meister
		Friday 4-5	21 Lowell	Mr. Meister
Italian		Tuesday 8-9	23 Lowell	Mr. Dike
		Thursday 8-9	23 Lowell	Mr. Dike
French I	Sec. b	Monday 8-9	23 Lowell	Mr. Dike
		Wednesday 8-9	23 Lowell	Mr. Dike
		Friday 8-9	23 Lowell	Mr. Dike

GERMAN I.

Students are assigned to sections as follows:

Section a.	Section b.
Achard, F. H.	Adler, J. E.
Babcock, H. A.	Capen, G. P.
Barnes, C. S.	Conant, A. D.
Bartlett, G. R.	Crawford, C. A.
Elcock, R. O.	Cromwell, P. C. Jr.
Harris, L. G.	Davis, E. W.
Murdock, F. D.	Garza, J.
Rand F. L.	Hayes, O. R.
Randall, R. A.	Morrison, A.
Ready, W. A.	Neily, E. S.
Sampson, G. B.	Rich, F. D.
Sondstein, L. M.	Sampson, R. D.
Sisonsky, S.	Taylor, E. G.
Stevenson, W. C. H.	Wallis, R. B.
Tullar, R. J.	Warner, P. A.
Waterman, M. L.	White, P. D.
Weeks, R. W.	Woods, C. H.

February 21, 1910.

FRENCH COLLOQUIUM B.

This subject has been announced erroneously as coming on Thursday from 12-1. It comes on Thursday from 11-12, and recites to Professor Bigelow, in Room 31 Lowell. Students wishing to attend should see Professor Bigelow at the next exercise.

GERMAN II.

Commencing Monday, the 21st, Section 18 will recite to Dr. Kurrelmeyer in Room 30 Lowell, otherwise as heretofore; and Section 8 to Professor Vogel in Room 30 Lowell as follows:

Tuesday, 12-1.
Wednesday, 12-1.
Friday, 10-11.

ALL CLUBS.

Proofs will be left for all Clubs having inserts in Technique at the Cage. If proofs are not called for in five days the editors can not be responsible for the copy.

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1910 class meeting Friday 1.00 P. M. in Huntington Hall.

LOST.

One drawing set. Finder please leave note at Cage for Althouse.

Lost bunch of keys, probably in 43 DR, Friday, Feb. 18. Return P. S. '13, Cage.

HISTORY OF CHEMISTRY.

The Lecture in the History of Chemistry will hereafter begin in 11 Eng. B. on Fridays from 9 to 10 A. M.

F. J. MOORE.

Will the person who took my coat by mistake from the Phys. Lab., Thursday afternoon, please leave it at the Cage for E. T. Wettengel.

There will be a meeting of the Mechanical Engineering Society this evening at 8 P. M., in 11 Eng. B. Mr. Ricker of the Darley Engineering Co. will speak on "Suction Ashes Conveyors." Important business will be transacted.

London, Feb. 24—The new Parliament rejected Austin Chamberlain's fiscal amendment by a vote of 285 to 254. This looks like the support of the ministry.

THE SPECIAL ISSUE FOR COURSES V & X WILL BE PUBLISHED SATURDAY, FEB. 26.

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